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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,981	03/01/2002	Stefan Jansen	1076.41311X00	2225
20457 7	590 01/12/2005		EXAMINER	
	I, TERRY, STOUT & SEVENTEENTH STRI	WIMER, MICHAEL C		
SUITE 1800			ART UNIT	PAPER NUMBER
ARLINGTON,	, VA 22209-9889		2828	

DATE MAILED: 01/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/084,981	JANSEN, STEFA	JANSEN, STEFAN		
Office Action Summary		Examiner	Art Unit			
		Michael C. Wimer	2828			
The MAILING DATE of this of Period for Reply	communication appe	ars on the cover sheet w	ith the correspondence ad	ldress		
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o - If the period for reply specified above is less th - If NO period for reply is specified above, the m - Failure to reply within the set or extended perion - Any reply received by the Office later than three earned patent term adjustment. See 37 CFR	MMUNICATION. provisions of 37 CFR 1.136 f this communication. an thirty (30) days, a reply waximum statutory period will be for reply will, by statute, coe months after the mailing designed.	(a). In no event, however, may a rithin the statutory minimum of thin apply and will expire SIX (6) MON ause the application to become AE	reply be timely filed ty (30) days will be considered timel ITHS from the mailing date of this considered timel BANDONED (35 U.S.C. § 133).			
Status						
1) Responsive to communication	on(s) filed on <u>13 Oct</u>	<u>ober 2004</u> .				
2a)⊠ This action is FINAL .		ction is non-final.				
3) Since this application is in coclosed in accordance with the		•	•	e merits is		
Disposition of Claims						
4)⊠ Claim(s) <u>1-36</u> is/are pending 4a) Of the above claim(s) 5)□ Claim(s) is/are allowe 6)⊠ Claim(s) <u>1-4,9-12,17-20,25-</u> 7)⊠ Claim(s) <u>5-8,13-16,21-24 an</u> 8)□ Claim(s) are subject t	is/are withdrawr d. <u>28 <i>and</i> 33-36</u> is/are objec <u>d 29-32</u> is/are objec	rejected. ted to.				
Application Papers						
9)☐ The specification is objected	to by the Examiner.	•				
10)☐ The drawing(s) filed on	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that	any objection to the dr	awing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) 11) The oath or declaration is obj	=	•	• •			
Priority under 35 U.S.C. § 119						
	ne of: priority documents priority documents copies of the priorit ternational Bureau (have been received. have been received in A y documents have been (PCT Rule 17.2(a)).	pplication No received in this National	Stage		
Attachment(s)						
1) Notice of References Cited (PTO-892)			Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing I Information Disclosure Statement(s) (PTC Paper No(s)/Mail Date			s)/Mail Date nformal Patent Application (PT0 	O-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4,17-20 and 33-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Holshouser et al. (6107970).

Regarding Claims 1-4, and , Holshouser et al. show a mobile phone and antenna in Figures 8A and 8B and 9A and 9B, a multi-layered dielectric PCB 40 with an element 42,142 formed from conductor patterns 46a,46b and 146a,146b on a plurality of layers including at least one buried layer of the PCB, and the conductor patterns are in a stacked relation and interconnected through the PCB with conductive vias 149 extending through apertures (i.e., the PCB is apertured adjacent the element) and the element is located at the edge 48 of the PCB, all arranged as claimed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 9-12 and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holshouser et al. (6107970) in view of Baro (5668559).

As noted above, Holshouser et al. show all structure with respect to the rejected claims. However, no ground plane conductor appears to be taught. Thus Baro is cited as teaching a ground plane conductor forming part of a coaxial feeder and radiator and shown in Figures 13A and 13B as layer 138,1383 and forming the helical radiator. A skilled artisan would have found it obvious to form the helix in Holshouser et al. as taught by Baro and to employ vias connecting the layers also as used in Holshouser et al.

Allowable Subject Matter

5. Claims 5-8,13-16,21-24 and 29-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims of record have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun O. Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Wimer Primary Examiner Art Unit 2828

MCW 01/05/2005